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| (51) International Patent Classification ⁵ : G01N 33/543, C12Q 1/00 | A1 | (11) International Publication Number: WO 94/24561 (43) International Publication Date: 27 October 1994 (27.10.94) |
| (21) International Application Number: PCT/SE94/00343 (22) International Filing Date: 18 April 1994 (18.04.94) (30) Priority Data: 9301270-6 19 April 1993 (19.04.93) SE (71)(72) Applicants and Inventors: NILSSON, Kurt [SE/SE]; Andjaktsv. 6, S-226 53 Lund (SE). MANDENIUS, Carl-Fredrik [SE/SE]; Strömkarlsv. 36, S-141 42 Huddinge (SE). | | (81) Designated States: CA, CZ, JP, RU, US, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> <i>In English translation (filed in Swedish).</i> |
| (54) Title: IMMOBILIZED CARBOHYDRATE BIOSENSOR (57) Abstract The present application refers to a biosensor in which an immobilized carbohydrate or a derivative thereof is used to generate a detectable signal when a protein, a virus or a cell is bound to the carbohydrate surface. The sensor is an optical sensor, a piezoelectric sensor, an electrochemical electrode or a thermistor. A method of binding carbohydrates to a gold surface is also described. | | |

INTERNATIONAL SEARCH REPORT
Information on patent family members

02/07/94

International application No.

PCT/SE 94/00343

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
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| DE-C2- 3617763 | 17/08/89 | JP-A- 61271458 US-A- 4980278 JP-A- 61271459 | 01/12/86 25/12/90 01/12/86 |
| EP-A2- 0215669 | 25/03/87 | JP-A- 63011835 US-A- 4789804 JP-A- 62207930 JP-A- 62288546 JP-A- 62288547 JP-A- 62064934 | 19/01/88 06/12/88 12/09/87 15/12/87 15/12/87 24/03/87 |
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| US-A- 5082929 | 21/01/92 | NONE | |

INTERNATIONAL SEARCH REPORT

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
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| X | WO, A1, 9001166 (ARES-SERONO RESEARCH & DEVELOPMENT LIMITED PARTNERSHIP), 8 February 1990 (08.02.90), see oages 14 and 4, line 19 | 1-4,10 |
| Y | --- | 1-15 |
| Y | WO, A1, 9212995 (MEDOR LABORATORIEN FÜR BIOCHEMIE UND KLINISCHE CHEMIE GMBH), 6 August 1992 (06.08.92) | 1-15 |
| X | US, A, 5082929 (THAT T. NGO ET AL), 21 January 1992 (21.01.92), column 1 - column 2 | 1-4,8 |
| | ----- | |

INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC5: G01N 33/543, C12Q 1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC5: G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

MEDLINE, BIOSIS, WPIL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
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| X | DE, C2, 3617763 (OLYMPUS OPTICAL CO., LTD.), 17 August 1989 (17.08.89), see fig 13 and page 25 | 1-4,10 |
| Y | -- | 1-16 |
| X | EP, A2, 0215669 (SEIKO INSTRUMENTS & ELECTRONICS LTD.), 25 March 1987 (25.03.87), see p. 6 line 19 and claim 6 | 1-4,10 |
| Y | -- | 1-15 |



Further documents are listed in the continuation of Box C.



See patent family annex.

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